

**AMENDMENTS TO THE CLAIMS**

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

**LISTING OF CLAIMS**

1. (Currently Amended) A method of producing biogas by anaerobic digestion of organic matter, comprising:

drying organic matter to a dry solids content of at least 70% by weight total solids (TS) and subsequently pelletising the same,

mixing the pelletised organic matter with a liquid to form a slurry, and grinding the pelletized organic matter such that at least 80% by weight of the organic matter obtains a particle size of 0.5-3 mm,

contacting the slurry with biogas-producing bacteria for digestion under anaerobic conditions in a reactor, and

digesting the slurry while producing biogas.

2. (Cancelled).

3. (Previously Presented) A method as claimed in claim 1, wherein the dried and pelletised matter is ground before being mixed with said liquid to form the slurry.

4. (Cancelled).

5. (Previously Presented) A method as claimed in claim 1, wherein an

additional organic matter being a different type than the organic matter is also digested in the reactor, at least 10% by weight of the total dry solids introduced into the reactor originating from the dried and pelletised organic matter.

6. (Previously Presented) A method as claimed in claim 1, wherein the liquid with which the organic matter is mixed is essentially pure water.

7. (Previously Presented) A method as claimed in claim 1, wherein the liquid with which the organic matter is mixed at least partly is digested sludge which is removed from the reactor.

8. (Previously Presented) A method as claimed in claim 1, wherein the pelletised organic matter is mixed in a premixing tank with a liquid to form said slurry with a dry solids content of 15-45% by weight total solids(TS), and this slurry is then introduced into the reactor to be digested at a dry solids content of 5-10% by weight total solids (TS).

9. (Previously Presented) A method as claimed in claim 1, wherein the dried and pelletised organic matter is dried green matter, such as dried agricultural products.

10. (Previously Presented) A method as claimed in claim 1, wherein the organic matter is ground before being pelletised.

11-14. (Cancelled).